RCA-03/0019/69

[redacted] 25X1

Basic Imagery Interpretation Report

NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER

[redacted] 25X1

MYTISHCHI ELECTRONIC RESEARCH COMPLEX

25X1 [redacted]

DEPLOYED COMM/ELEC/RADAR FACILITIES

USSR

MARCH 1969

COPY NO. 105

5 PAGES

GROUP 1: EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

INSTALLATION OR ACTIVITY NAME
Mytishchi Electronics Research Complex

COUNTRY
UR

25X1

GEOGRAPHIC COORDINATES
55-55-20N 037-44-50E

25X1
NA

AAP REFERENCE
ACIC. US Air Target Chart 200, Sheet M0167-5HL, 2d ed, Apr 63, Scale 1:200,000 (SECRET/
25X1

LATEST IMAGERY USED

NEGATION DATE (If Applicable)
NA

ABSTRACT

This report presents detailed information on all components currently present at Mytishchi Electronic Research Complex. The complex may be subdivided into five related areas: an R&D test area, an administration and technical area, a storage and fabrication area, a support area, and a special housing area.

The complex has a history of electronics research and development dating from the early 1940s. One of the best known radars developed at the complex is the BEER CAN which is now deployed.

INTRODUCTION

The Mytishchi Electronic Research Complex is located approximately 11 nautical miles (nm) north-northeast of Moscow, USSR. It is both road and rail served. The complex can be subdivided into five areas: an R&D test area, an administration and technical area, a storage and fabrication area, a support area, and a special housing area (Figure 1).

The complex has a long history of electronics research and development. Ground
25X1 photography and other collateral information indicate electronics research dating back to the early 1940s. Some of the equipment tested here has now been deployed. Large-scale [redacted] photography does not parallel available ground photography and, therefore, a chronology of the facility is not included.

The physical boundaries of the Mytishchi complex are very difficult to determine because of the age of the complex and its situation within a rather dense cultural environment. A facility which may or may not be related is located adjacent to the eastern side of the complex. This facility, in general, is separately secured and has the appearance of some type of military school or installation. Principal access to the facility is by a road through the R&D test area; several access roads enter the complex from the southern side.

All mensuration given in this report is accurate to within [redacted] for 25X1
25X1 horizontal dimensions and [redacted] for vertical dimensions.

BASIC DESCRIPTION

Operational Functions

R&D Test Area

The R&D test area is secured by a single fence and consists of a test line which is served by a rail-mounted traveling jib crane and approximately ten buildings of various sizes and functions. Numerous vehicles, vans, and miscellaneous pieces of equipment are located in the field adjacent to the test line. Several radars of various types and other electronics components are located along the test line (Figure 2, items A through F):
25X1 Item A is an unidentified radar whose configuration cannot be determined because of the limited interpretability of available photography. Several test platforms and an environmental shelter are located near the unidentified radar.

[redacted]

raphy reveals that this pedestal was occupied by a probable prototype top-section mesh reflector used in the BEER CAN radar (see item E).

25X1 Item C appears to be a horizontal truncated probable service platform (Figure 2). The probable service platform has a height of [redacted] A circular object, [redacted] in diam- 25X1
25X1 eter and [redacted] high, is located to the rear.

Item D is an occupied cylindrical pedestal. The pedestal is occupied by what appears to be an early probable prototype of a BACK NET-type radar.

Item E is the early probable prototype of the BEER CAN radar. 1/ Sections of this radar, such as the bottom reflector, were observed of ground photography of 1957.

A 370-foot-high square-base steel lattice calibration tower is located approximately 3,500 feet north of the R&D test line. A small control building is located at its base. Ground photography reveals that the tower has numerous calibration antennas and reflectors of undetermined dimensions.

Item F is a probable single R-400 microwave antenna. The antenna is mounted on a steel lattice tower. The propagation azimuth of the antenna cannot be determined because of the limited interpretability of available photography.

Administration and Technical Area

The functional boundaries of this area are not well defined. It contains a diverse number of buildings whose specific function cannot be positively determined. The three largest buildings within this area (items 60, 61, and 65) may function as living quarters, or as engineering staff offices or classrooms. A small motor pool in the southeast corner of the area contains approximately 115 van trucks, cargo trucks, and small vehicles.

The area also contains an assortment of logistic and support buildings which provide the necessary personnel services.

Storage and Fabrication Area

This area consists mainly of warehouses and vehicle maintenance/storage buildings. Several buildings appear to be utilized for light fabrication and assembly operations; general shop buildings are associated with these buildings. Numerous piles of undetermined material are scattered throughout the area. Approximately 100 assorted van trucks, cargo trucks, and unidentified vehicles/pieces of equipment are located within the area. The area is rail served by a single track with at least four internal rail spurs. The area is partially secured by a single fence. No radars or electronics components can be identified within this area.

Support Area

The support area is located on the eastern side of the R&D test area and consists mainly of storage, maintenance, and support buildings. Numerous piles of unidentified material are scattered throughout the area.

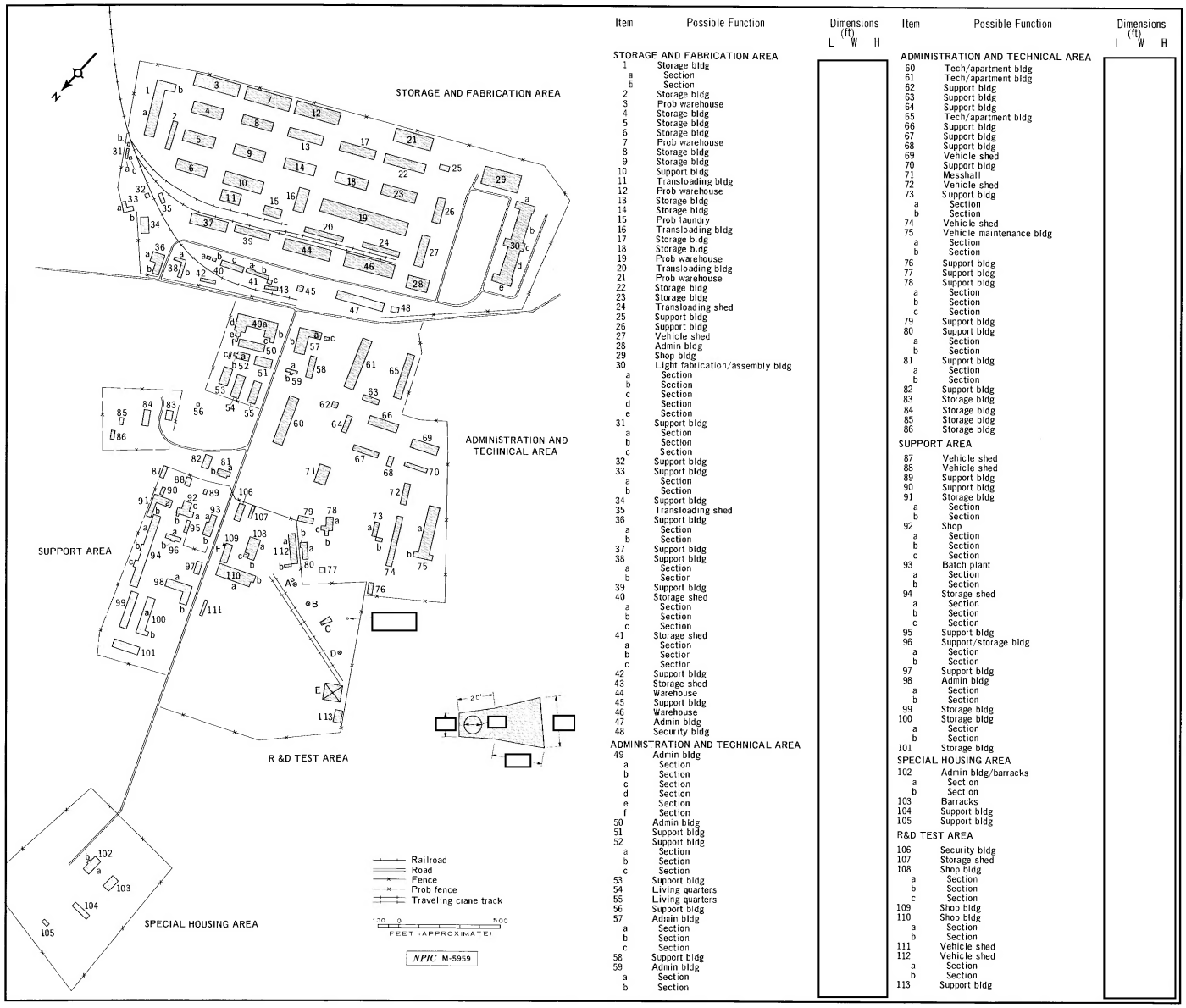
Special Housing Area

The special housing area is secured by a single fence. This area probably serves as housing for the security detachment. An apparently abandoned HF double rhombic antenna is located approximately 1,000 feet southwest of this area.

ground photography reveals that the area contains a tall guard tower and several possible VHF antennas.

Status and Activity

The complex has, until been covered by small-scale or large-scale photography of generally unsuitable interpretability. The earliest small-scale photographic coverage of suitable interpretability on which the complex can be observed is This coverage, along with several intervening missions, was compared with the latest available large-scale photography. It was determined that very few significant physical changes have taken place during this period. Because of the limited photographic coverage, no attempt has been made to develop a chronology of the complex.



Item	Possible Function	Dimensions (ft) L	W	H
STORAGE AND FABRICATION AREA				
1	Storage bldg			
a	Section			
b	Section			
2	Storage bldg			
3	Prob warehouse			
4	Storage bldg			
5	Storage bldg			
6	Storage bldg			
7	Prob warehouse			
8	Storage bldg			
9	Storage bldg			
10	Support bldg			
11	Transloading bldg			
12	Prob warehouse			
13	Storage bldg			
14	Storage bldg			
15	Prob laundry			
16	Transloading bldg			
17	Storage bldg			
18	Storage bldg			
19	Prob warehouse			
20	Transloading bldg			
21	Prob warehouse			
22	Storage bldg			
23	Storage bldg			
24	Transloading shed			
25	Support bldg			
26	Support bldg			
27	Vehicle shed			
28	Admin bldg			
29	Shop bldg			
30	Light fabrication/assembly bldg			
a	Section			
b	Section			
c	Section			
d	Section			
e	Section			
31	Support bldg			
a	Section			
b	Section			
c	Section			
32	Support bldg			
33	Support bldg			
a	Section			
b	Section			
34	Support bldg			
35	Transloading shed			
36	Support bldg			
a	Section			
b	Section			
37	Support bldg			
38	Support bldg			
a	Section			
b	Section			
39	Support bldg			
40	Storage shed			
a	Section			
b	Section			
c	Section			
41	Storage shed			
a	Section			
b	Section			
c	Section			
42	Support bldg			
43	Storage shed			
44	Warehouse			
45	Support bldg			
46	Warehouse			
47	Admin bldg			
48	Security bldg			
ADMINISTRATION AND TECHNICAL AREA				
49	Admin bldg			
a	Section			
b	Section			
c	Section			
d	Section			
e	Section			
f	Section			
50	Admin bldg			
51	Support bldg			
52	Support bldg			
a	Section			
b	Section			
c	Section			
53	Support bldg			
54	Living quarters			
55	Living quarters			
56	Support bldg			
57	Admin bldg			
a	Section			
b	Section			
c	Section			
58	Support bldg			
59	Admin bldg			
a	Section			
b	Section			

Item	Possible Function	Dimensions (ft) L	W	H
ADMINISTRATION AND TECHNICAL AREA				
60	Tech/apartment bldg			
61	Tech/apartment bldg			
62	Support bldg			
63	Support bldg			
64	Support bldg			
65	Tech/apartment bldg			
66	Support bldg			
67	Support bldg			
68	Support bldg			
69	Vehicle shed			
70	Support bldg			
71	Messhall			
72	Vehicle shed			
73	Support bldg			
a	Section			
b	Section			
74	Vehicle shed			
75	Vehicle maintenance bldg			
a	Section			
b	Section			
76	Support bldg			
77	Support bldg			
78	Support bldg			
a	Section			
b	Section			
c	Section			
79	Support bldg			
80	Support bldg			
a	Section			
b	Section			
81	Support bldg			
a	Section			
b	Section			
82	Support bldg			
83	Storage bldg			
84	Storage bldg			
85	Storage bldg			
86	Storage bldg			
SUPPORT AREA				
87	Vehicle shed			
88	Vehicle shed			
89	Support bldg			
90	Support bldg			
91	Storage bldg			
a	Section			
b	Section			
92	Shop			
a	Section			
b	Section			
c	Section			
93	Batch plant			
a	Section			
b	Section			
94	Storage shed			
a	Section			
b	Section			
c	Section			
95	Support bldg			
96	Support/storage bldg			
a	Section			
b	Section			
97	Support bldg			
98	Admin bldg			
a	Section			
b	Section			
99	Storage bldg			
100	Storage bldg			
a	Section			
b	Section			
101	Storage bldg			
SPECIAL HOUSING AREA				
102	Admin bldg/barracks			
a	Section			
b	Section			
103	Barracks			
104	Support bldg			
105	Support bldg			
R&D TEST AREA				
106	Security bldg			
107	Storage shed			
108	Shop bldg			
a	Section			
b	Section			
c	Section			
109	Shop bldg			
110	Shop bldg			
a	Section			
b	Section			
111	Vehicle shed			
112	Vehicle shed			
a	Section			
b	Section			
113	Support bldg			

FIGURE 2. STRUCTURES AT MYTISHCHI ELECTRONIC RESEARCH COMPLEX.

REFERENCES

25X1

IMAGERY*

[redacted]

25X1 [redacted]

MAPS OR CHARTS

25X1 ACIC. US Air Target Chart 200, Sheet M0167-5HL, 2d ed, Apr 63, Scale 1:200,000 (SECRET/ [redacted]

DOCUMENT

25X1 1. NPIC. [redacted] Launch Complex A, Sary-Shagan Antimissile Test Center, USSR, Mar 66 (TOP
25X1 SECRET [redacted]

REQUIREMENT

COMIREX BR-C/005-69

NPIC Project 210638